

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 19, 2003, 15:19:15 ; Search time 42 Seconds

(without alignments)
762.603 Million cell updates/sec

Title: US-09-494-297-2

Perfect score: 3945
Sequence: 1 MKTRPRLKTLNTRVLS.....IAGISLGIMGIIIRIRKHD 757

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2.6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2.6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2.6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2.6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2.6/ptodata/1/1aa/PCRTUS.COMB.pep:*
6: /cgn2.6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	194.5	4.9	2439	3	US-09-074-658-11 Sequence 11, Appl
2	181	4.6	728	2	US-09-107-532A-4518 Sequence 4518, Ap
3	178	4.5	898	2	US-08-867-941-11 Sequence 11, Appl
4	176	4.5	905	3	US-09-074-658-70 Sequence 70, Appl
5	161	4.1	1416	4	US-09-071-035-404 Sequence 404, App
6	161	4.1	1448	4	US-09-071-035-402 Sequence 402, App
7	154.5	3.9	2432	3	US-09-074-658-15 Sequence 15, Appl
8	152	3.9	1849	4	US-08-851-567B-49 Sequence 49, Appl
9	152	3.9	2516	4	US-08-851-567B-47 Sequence 47, Appl
10	150	3.8	1161	4	US-09-327-556-2 Sequence 2, Appl
11	149	3.8	2032	4	US-09-071-035-458 Sequence 458, App
12	149	3.8	2032	4	US-09-071-035-462 Sequence 462, App
13	149	3.8	2032	4	US-09-071-035-466 Sequence 466, App
14	148	3.8	1183	2	US-08-447-031A-2 Sequence 2, Appl
15	145	3.7	1112	2	US-08-714-402-2 Sequence 2, Appl
16	142.5	3.6	627	1	US-08-703-947-2 Sequence 2, Appl
17	142	3.6	930	4	US-09-134-001C-5314 Sequence 5314, Ap
18	139	3.5	1231	4	US-09-071-035-420 Sequence 420, App
19	139	3.5	1265	4	US-09-071-035-418 Sequence 418, App
20	139	3.5	2366	1	US-08-480-604A-10 Sequence 10, Appl
21	139	3.5	2366	2	US-08-405-496A-10 Sequence 10, Appl
22	139	3.5	2366	3	US-08-915-136-10 Sequence 10, Appl
23	139	3.5	2366	4	US-08-957-310-10 Sequence 10, Appl
24	139	3.5	2366	4	US-10-011-366-10 Sequence 10, Appl
25	138.5	3.5	625	4	US-09-692-064-2 Sequence 2, Appl
26	138	3.5	894	2	US-08-867-941-15 Sequence 15, Appl
27	137.5	3.5	2522	3	US-09-251-645-13 Sequence 13, Appl

28	134	3.4	1861	2	US-08-790-912-4 Sequence 4, Appl1
29	133	3.4	1095	4	US-09-107-532A-3855 Sequence 3855, Ap
30	133	3.4	2314	4	US-09-268-347-49 Sequence 49, Appl
31	131.5	3.3	1297	4	US-09-107-532A-4552 Sequence 4552, Ap
32	131	3.3	660	4	US-09-107-532A-6715 Sequence 6715, Ap
33	129	3.3	1221	4	US-09-107-532A-3959 Sequence 3959, Ap
34	128.5	3.3	952	4	US-09-107-532A-4706 Sequence 4706, Ap
35	128	3.2	621	4	US-09-071-035-468 Sequence 468, App
36	128	3.2	1375	3	US-09-210-361-4 Sequence 4, Appl1
37	128	3.2	1375	4	US-09-740-274-4 Sequence 4, Appl1
38	128	3.2	1394	4	US-08-296-791-2 Sequence 2, Appl1
39	128	3.2	1394	5	PCR-US95-10661A-2 Sequence 2, Appl1
40	126	3.2	413	4	US-09-107-532A-6433 Sequence 6433, Ap
41	126	3.2	10182	4	US-09-134-001C-3159 Sequence 3159, Ap
42	125.5	3.2	691	3	US-08-946-475-2 Sequence 2, Appl1
43	125.5	3.2	691	3	US-09-340-479-2 Sequence 2, Appl1
44	125.5	3.2	711	3	US-08-946-475-9 Sequence 9, Appl1
45	125.5	3.2	711	3	US-09-340-479-9 Sequence 9, Appl1

ALIGNMENTS

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RESULT 1
US-09-074-658-11
; Sequence 11, Application US/09074658
; Patent No. 6184371
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Run-Pan Du
; APPLICANT: Ouljun Wang
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,658
; FILING DATE: 08-MAY-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-795
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2439 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-074-658-11

Query Match 4.9% Score 194.5; DB 3: Length 2439;
Best Local Similarity 18.6% Pred. No. 2.3e-06;
Matches 180; Conservative 128; Mismatches 328; Indels 331; Gaps 44;
OY 4 TRPKNLTNTQRYLSKSRFTVLIVGELIMFALVTSWGAQTVGVLESSTPNAIN 63
DB 79 TTDPGDNNOQLQ-----AQKTAAGAAGFFVM-----GKTRDTSPPK-D 115
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QY 64 PDSSSE--YRMYG--YESYVRGHP-----YKQFRVADHLKVNLT 98
Db 116 PDYSNDLVQOMOGKLYGIDAHRRDGICTGKNLQPIITANDIKRLYKFKPALSDHLDS 175
QY 99 EGRSRVYVYCFNLKKAAPLGSDDSVK--WKKHKGISTFEDYAMSP-----RIT 147
Db 176 ERNR-FDPKRLNTIKYVGNLTTPSKNNTYINHQADNKNKPNVDPYENIRRGYLEQ 234
QY 148 GDELNOK-----LRAVMYNGHPQANNGIMEGLEPLN-----178
Db 235 GSSLTQKNADTPNDKDKIPKPMPLFTYHG--ENASSQLPSAGKFNKYNLGLSDVKKRP 292
QY 179 AIRVTOEAWYISDNADISNPDSEFKRESSNLVTSQSL-----219
Db 293 ALSASDDRVGVYILNASGKN-----EGDVSAHIYILNGFQYKHPATYQVDPDTN 343
QY 220 -MQALKQLIDPNLATMKPQOVDDF-----QLSTFSEBDK--GKYNKGYONLLSGG 269
Db 344 SLTGKLSLYDNPNQOTAGKYIKSQFDTTKRVNETHDYQIDAKINGRFRGTAASLVNEN 403
QY 270 L-----VPTKPRTPGDPMPMPNPQOTSVLIRKAYIDYSKLEAGATLQTLGDNVNS 321
Db 404 TETAPFIKELESKKANNNP--NPN-----SPTLDCGEGYEGSGDEL--442
QY 322 FQARVSSND-----IGERIELSDGTYTLTFLNSPAGYSIAEPIITKRVAGKYVTLIDG 375
Db 443 --AGKFLSNDNASVYVGGKRDKTDKPVATKTYVFSAGFE--KSTSFVNETHGRIINS 498
QY 376 KOIENPKELVE-----YSVEAYNDF-----EEFSVLTON-----YAKFYAK 415
Db 499 KILMDAVNEKIDNGDITSDERYDEFPWGEKKAELTKVSSIQAVPAYEGQHDKFE--556
QY 416 NKNGSSQVYCFNADLKSPPDSESGKMTPTDFTTGEV-----453
Db 557 --NGNYDLDASSVYDKLAPADAVKANSIKEKYPMALINKNDQNTAYILQEAKNKRYTA 614
QY 454 ----KYTHIA-GRDLF-----KTYVKPRDTPDTFLKHKKVYI-----486
Db 615 IRAKSYOHISFGETLYNDANOTPTRSYFVGGRADTSTLPRKAGKFTYNGILMAGYLIQK 674
QY 487 EKGRKRGQALIEYSG-----LTFEQLRAATQALAIYTT-----DSLELDKDKLKHVHGF 535
Db 675 DKGTSNNEETIKKGHODYLLTDE-----FTPRDDDDDLTASDSODDADHGD 722
QY 536 GDMNDSTLAVAKILVEYADSNPPQLTDLDFEIPNNKRYSLGTQWHPEDLVIDIMED 595
Db 723 DDL-----IASDSDODDADGDDSDDL--GDCADDAAGKYYHAGN-----IPEF 767
QY 596 KKEVIYV--THNLTL-----RKTVYGLAGDRTRKDFHEIELKNNKQELL 637
Db 768 ENNYLPINEPTHEKTFALDKKNKAKFPVDFTNSLTGKLNDERGDIYFDI--KNGKIDGT 825
QY 638 SQVYKDKTLEFKDGKATINLKHGESLTQGLEGSYLVKLEDSGYKVKNSQVYA- 696
Db 826 GFTAKADVPYRREVQ--NNOGG-----GELYNIKDIDVYGFEGTNGEELAG 871
QY 697 -----NATVSKTG-----ITSDETLAFENNKPPVPTGVOKINGTL--ALTVIA 739
Db 872 QLOYDKGDGINDTAERKAGAVFGAVKMKMSITKTQTPSVYHTMTTHLNLAIKRAALGVA 931
QY 740 GISLGIV 746
Db 932 VLPLSVW 938

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RESULT 2
US-09-107-532A-4518
; Sequence 4518, Application us/09107532A
; Patent No. 6583275

GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

```

; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <unknown>
; SOFTWARE: ASCII
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: us/09/107,532A
; FILING DATE: 30-Jun-1998
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
;
; INFORMATION FOR SEQ ID NO: 4518:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 728 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
;
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: (B) LOCATION 1...728
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 4518:
US-09-107-532A-4518
;
; Query Match
; Best Local Similarity 20.7%; Pred. No. 4.2e-06;
; Matches 147; Conservative 102; Mismatches 235; Indels 226; Gaps 37;
;
; 4.6%; Score 181; DB 4; Length 728;
;
; 96 VNIEGS--RSYOVYCFNLKKAAPLGSDDSVKYYKKHKGISTKFEFY-----A 141
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 175 ISIEGNTIKSNQIY-----LGRDQELQIHYQVR--IQTENEDFHPFWYQMNGRTT 223
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 142 MSPRITGDELNOKLRAVMYNGHPQANNGIMEGLEPLNATIRVQEAWYISDNAPISNPDE 201
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 224 FQNPIDINELAE-----FGIPSAKAPVSLHI--KKLMEEDNNLADRPQ 267
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 202 -SEKRESSENLVTSQLSILKQALQILDPENLAT-----KKPKQVDDFO--LST 248
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 268 VTFEIQRE-----HTTNAAMKNGYIRIRAKKTTMTWERADIDKLSHGESYQELISL 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 249 FESEDKGDKYKNQYONLSGLVPTKPPPG-----DPPMPNPQOTSQV--LIRKXA 299
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 324 PNYNQGQAFS--YQTI-----KELPYVGYSQIDAMTWKNTKQFTPLNLKITKNS 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 300 IGDYSKLLEGATLQTLGDNVNSFOA-RVSSNDIGERIEL-SDGTYTLTFLNSPAGYSIA 357
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 375 TGE--KDLIGAVFKLTGDSIDLTLTDHGDYSLPENVYKQKEMTYTLLETAKPEGHGS 432
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 358 EPTTFVEAGKYVTI-IDGK-----QIENPNKEIVPEYVEAYNDFEFSVLIT 405
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 433 KTTTWEIKIASDGTIVTIDGTYTTSDDTLITENFVEV--PVAKRKAMQGTDEKINL 490
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 406 QNAKFFYAKNKGSSQVYCFNADLKSPPDSE--DGKMTPTDFTTGEVYKTHIAGRD 462

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Db      491 KGAFAFLQKKEANGYQ-----PIDSQTTNEGGLASFDSLTFGKRYVETACPA 539
Qy      463 LFKTYVPRDTPDTFLKHKKVLEKGYREKGOAIEYSGLETQIRAAOTAIYFTDSA 522
Db      540 GY-----DTSFGNYEFQIDKY-----GKIT-YTGKNTMENTNNWTLTHQRLKAF 583
Qy      523 ELDDKDKLDYHGFQGMNSTALAVAKILVEYADDSNPOLTDLDFITPNKKYQSLIGTOW 582
Db      584 DLTYHKKED-----NGQTLGAKAFRLQ-----GPEM-DLE----- 612
Qy      583 HPEDLVDIRMEDKKEVAPVTHNLTKRTYGTGLADRTKDFHEIELKNNKQELLSTQYK 642
Db      613 SPKD-----GQETDTFLFE----- 626
Qy      643 TDKTNLEFRDKKATINLKHGE-SLTLOGLPEGYSYL--VKETDSEGYKRVNSQEVANA 698
Db      627 -----NLKPGTYTLTETFTPEGYQGLKEPVTIVIHEDSGISQVGDGD--HE 669
Qy      699 TVSKTGITSDE-TLAFENN-KEPVVPTGVQDOKINGYALIVYAGISLGIV 746
Db      670 SVLSPGAKNNQISLDTINQAKVPLPETGGIGRLGIY--LVGMIGCAFISIW 717

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RESULT 3

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US-08-867-941-11
; Sequence 11, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loommore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Qiu-Jun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Slim & McBurney
; STREET: 6th floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 898 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-867-941-11

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Query Match

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Best Local Similarity 18.6%; Pred. No. 1e-05; Length 898;
Matches 171; Conservative 118; Mismatches 305; Indels 344; Gaps 42;

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Qy      4 TRFNKLTTLTQRLSKSRKRFVTLVGVLMIFALVTSMVAKTVFGLVSSSPNAIN 63
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Db      79 TTDPNQNNQTLQ-----AQKTAAGFFVM-----GKIRDTSPKN-D 115
Qy      64 PDSSE--YRWYG--YESYVRGH-----YYQFRAVDLRVNL 98
Db      116 PDYSNDLVQOQWQGLYVDAIDAHPRDGICTGKRLRQPIRPIANDIKPLFYFKFPALSDLHDS 175
Qy      99 EGSRSYQVYCFNLKAKAPLGSDDSSVK--WKKKHGISTKPEDYMSF-----KIT 147
Db      176 ERHR-FDPKLTNTIKVYGNLTPTPSKNNYTNHQADNNKNNKFPDVENIRFGYLEQ 234
Qy      148 GDELNOK-----LRAVMNGHPONANGIMEGLEPLN----- 178
Db      235 GSSLQGNKADNPNDKDRIPKMPILFYTG--EMASSQLPSACKFNYTGNWLLSDYKRRP 292
Qy      179 AIRVTQEAVMYVSDNAPISNDESEKRESNLSVSTQLSL----- 219
Db      293 ALSASDDHVGAYLNASGKSN-----EGDVSAHAIIYNGFQKHPATYQVDPDTN 343
Qy      220 -MROALQGLIDPNLATKPKQVPDF-----QLSTFESDK--GDKYNNQYQNLLSGG 269
Db      344 SLTGKLSYVDNPNQTAQGYIKSQFTTKVNETDVYQIDAKINGNRPVGTASLVNEN 403
Qy      270 L-----VPTKPTPGDPMPMPNPQOTTSVLRKVAIGDYSKLLEGATLQLTGDNNYS 321
Db      404 TETAPFIKELFSKKNPNP--NPN-----SDTLEGGFYGESGDEL-- 442
Qy      322 FOARVSSND-----IGERLESDGYTTLTELNSPAGYSIAEPIITEFVEAGKYTTIDG 375
Db      443 --AGKFLSNDNASYVYFGKDKDKDPVATKYVFSAGFE--KPSTSFVDMETIGRIINS 498
Qy      376 KOIENPKIEYE--PYSVEAYNDF-----EESVLTQN-----YAKFYAK 415
Db      499 KKLNDVNEKIDNGDIPTSDEKYDEFPMGEKKAETTKVSSSTQAVPAYFQOHDKYF-- 556
Qy      416 NKNSSQVYVCFNADLKSPDSESGKMTPTDFTTGEV----- 453
Db      557 --NGMYDLSASSVDKLAIPADAVKANQSIKKEPYATILNKNOVTAIYLQEKDKPYTA 614
Qy      454 ---KYTHIA-GRDLF-----KYVVKPRDDPTFLKHKKVY----- 486
Db      615 IRAKSYOHISFGETLYNDANQTPTRSYFVQGGRADTSTLPKAGFFYNGIMAGYLLQK 674
Qy      487 EGYREKGOAIEYSG-----LTENQLRAATQALAIYFT-----DSALDKDKLDYHGF 535
Db      675 DKGYSNNEETIKKGHQDYLITD-----FTPEDDDDLTASDSQDDAHGD 722
Qy      536 GDMNDSTLAVAKILVEYADDSNPOLTDLDFEIPNNKYSQSLIGTOWHPEDLVDIRMED 595
Db      723 DDL-----IASDDSQDDADODSDDDL--GDGADDAAGKVVYHAGN---IRREF 767
Qy      596 KKEVIVP--THNLT-----RKTYVTGLADRTKDFHEIELKNNKQELL 637
Db      768 ENKYLPINEPHEKTFALDGKNNKAFDVPDFTNSLTGLNBERGDIYDI--KNGKIDGT 825
Qy      638 SQYVTKDTNLEFKDGKATINLKHGESLTLOGLPEGYSYLVKETDSEGYKRVNSQEVANA 696
Db      826 GFTAKADVPNTRREEVG-----NNQG-----GFLYNIKDIDVKQGFGTNGEELAG 871
Qy      697 -----NATVSKTG 704
Db      872 QLOYDKGDGINDTAERKAG 889

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RESULT 4

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US-09-074-658-70
; Sequence 70, Application US/09074658
; Patent No. 6184371
; GENERAL INFORMATION:
; APPLICANT: Loommore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Qiu-Jun Wang
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H

```

```

: TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
: NUMBER OF SEQUENCES: 78
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Sim & Mcburney
: STREET: 6th Floor, 330 University Avenue
: CITY: Toronto
: STATE: Ontario
: COUNTRY: Canada
: ZIP: M5G 1R7
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/074,658
: FILING DATE: 08-MAY-1998
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Stewart, Michael I
: REGISTRATION NUMBER: 24,973
: REFERENCE/DOCKET NUMBER: 1038-795
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (416) 595-1155
: TELEFAX: (416) 595-1163
: INFORMATION FOR SEQ ID NO: 70:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 905 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: US-09-074-658-70

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Query Match          4.5%: Score 176; DB 3; Length 905;
Best Local Similarity 20.6%: Pred. No. 1.5e-05;
Matches 164; Conservative 102; Mismatches 264; Indels 266; Gaps 40;

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QY      84 YKQFRAVHDLRVNLEGSRSYOVYCFNLKRA-----PPLGSDSSVKK-----WYKKHDI 133
      165 YDFKPKISDL--HLENSE-----HVFDAKKANNIKIYGALSSPANPTMYMNQOQNI 218
QY      134 STR--FEDYA-----MSPRIT-----GELNOKLRAVWNG-----HPQANGIMEGL 174
      219 KNRKPGDDYQINRGYVELRELRLNKKGADNOSDKRAIIFTPPTLFYHGENSTHLP-- 276
QY      175 EPLNAIRVTOEAVVYSDNAP-----ISNPE-----SPKRSESULVSTQSL-- 219
      277 ---KAGFYEGMWLYITDYKKRPFLLDKTDKVGTYFNSTRKSVESGLVSAHIYLSFK 333
QY      220 -----MRQALKOLIDPNLATKMPKQVDPDF-----QLSIFESDK-- 254
      334 YKHTPATYSVDFQNTLKGKLSYDNNKQTADGRYIRSFQDDDKVKNVADVEIDAKIN 393
QY      255 GQYXNKGYQLLSGGL-----VPTKPTPGDPPMPRPQOTTSVLIRKVAIGDYSKL 306
      394 GNFRTGAKSLIDNTNTAFVKELEFSKKANPNNP--DPN-----SDT 434
QY      307 LEGATLQLDGDNVNSFOARVSSNDI-----GERIELSDGYTYLLELNSPAGYSTAEP 359
      435 LEGGFYGESDEL-----AGKFLSNDNATFYVFGKRRKTEPAATKVYVS--TGFE--KP 487
QY      360 IFKFEVAGKYVYTIIDGK---QIENPNKEIYEPYSVEAYNDF-----EEFSVLT 405
      488 STFGVGEIEIGSLIDGGLNDEVNNOIEDETVPYSNKEYEYVNGRNKQFTKINSVQ 547
QY      406 QNTA-----KFTY-----AK--NKNGSSOVYTCFNADLKSPPDSEGGKTMPPDFT 449
      548 KNPAYFGQHDKFFNGNYTDLASAKANKLGVSQDSTFNKSLIAKYPDA---RVSTDNKV 603
QY      450 T-----GEVYTHLAGRDLKFTYVKKPPDTPDFTFLK----- 480
      604 TKIVLOAKDKPYTAIHAASYDHIISFGEVLYINDNKNKPNTRSYTFVQGGQADVSTOLPSACK 663

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QY      481 -----HIKVIKGYREKGOAIEYSGILTQLRATOLAIFYFT----- 519
      664 FTYNGLWAGYLTKQKKDGSKDEDTIKOKGLK-----YILTQFIPQDDDDDD 712
QY      520 DSAEELDKRLKD--YHGGDMNDSITLAVAKILVEYADSNRPQLDIDFIFPNKKNQSLI 578
      713 DSLTASDDSDDDNTHGDDL-----TASDSDDDDTDGGDDSDDL--GGADDDAA 761
QY      579 GTOWHPEDLDIIRMEDKKEVIVY---THNLTL-----RKVTYGLAGDRT 620
      762 GKYYHAGN-----IRPEFENKYLPINEPTHEKTFALDSKKNKAKFDVNDFTNSLGLKNDER 817
QY      621 KDFHEIELKNNKQELLSTQVTKDTKNLEFKDKGKATINLHGSLSLQGLPEGYSTLYKE 660
      818 GDIVFDI--KNGKIDGTGFTAKADVPRYREVG---NNQGG-----GFLYNIKD 861
QY      681 TDSEGYVVKVNSOEVA 696
      862 IDVKGREFGTNGEELA 877

```

RESULT 5

US-09-071-035-404

Sequence 404, Application US/09071035

Patent No. 6448043

GENERAL INFORMATION:

APPLICANT: Gil H. Choi

TITLE OF INVENTION: Enterococcus faecalis polynucleotides and polypeptides

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.

STREET: 9410 Key West Avenue

CITY: Rockville

STATE: Maryland

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

FILING DATE: US/09/071,035

APPLICATION NUMBER:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: A. Anders Brookes

REGISTRATION NUMBER: 36,373

REFERENCE/DOCKET NUMBER: PB369P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504

TELEFAX: (301) 309-8512

INFORMATION FOR SEQ ID NO: 404:

SEQUENCE CHARACTERISTICS:

LENGTH: 1416 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-071-035-404

Query Match 4.1%: Score 161; DB 4; Length 1416;

Best Local Similarity 21.1%: Pred. No. 0.00052;

Matches 159; Conservative 104; Mismatches 326; Indels 166; Gaps 40;

```

QY      39 ALVTSWYGATVGVGVES---STPNAINPOSSEYRWYGVSVRGHPYKQGRVAVHDR 95
      484 SLSTPYVIGPKAQLVSDQYIEPIISVYNP--LNFETMAGNTDQ-----NGAYSSR 531
QY      96 --VNLEGSRSYOVYCFNLKRAFP---LGSDDSSVKKWYKKHDIISTKFEDYAMSPRITGD 149

```

Db 532 TTYSVMGSKKEPIONLEIKVHKHPYVLSLRATKEIFYK---LGT---DYTVPTSDGS 584
QY 150 ELNOKLRAVYNGHPQANANGIMEGL-----PLNAIVTQEAIVYSDNAPISNPDSFK 204
Db 585 VIKFTPTITNEIQIPIGFNVPDLSLPKDSIPVDITITMSAGELTPVDITVT---NSK 641
QY 205 RESESNLVSTQSLSLMQALKOLIDPMLATKMPKQVDDPOLSTFESEDKGDKYKNGYON 264
Db 642 RGSERTLOSSKNQFLVARNRDSFSLSVKRIKIPAGA--DVLFDIYDVSN--DQVDSIYPQ 697
QY 265 LLSGGLVPTKPPRGDPM--PMQPTTSVLI-----RKYATGYSKL---LEGATIQ 313
Db 698 YMDRGQYFDKPMFPNSGYPITITDETNSTYTFPGTKNKYII--EKKMANGMIDVPTLY 756
QY 314 LTG-----DNVNSFOARVSSNDIGERIELSDGTYYLTLSNPAGYSIAEPIITFEYAG 367
Db 757 ITGTAKEPQSNNGSASVSQN---EALDILSAT-----QANPPLKKNYTKT 801
QY 368 KVTY-IIDGK--QIENPNKEIVEPYSEAYNDPEFSVLTQNYAKFYAKNKGSSQVY 424
Db 802 TVTTKNIDNKTNRKKNPTIELTPKGTINAQIDLSITV-----KGPEDA 846
QY 425 YCFNADLKSPDSEDGKTMPTDFTTGE---VKYTHIAGRDLFKYTKPRDTPDPTLKH 481
Db 847 Y-----SLEKTINGAKVIFKDYTLTENITIEIYVNSANAGQYITETITDSETLNOMSA 899
QY 482 IKKVI-----EKGYREKGOAIEYSGLTETQLRAATOLAIFYFTD---SAEL 524
Db 900 SKKKVTTAPITLAKSEGDAGIYVLAATATFTYTHNVEDENQIAKVSFELIDNVTHTATEF 959
QY 525 DKOKLKHGFGDM--NSTLAVAKILVEYADSNPOLT-----DLDFITP----- 569
Db 960 TTDEKGOYSPDAIMTGYTLKVTNVPOEYSVDEE--YLTGKAIKLVKGDNOLKIPLRTKI 1017
QY 570 NNNKYYQ-----SLIGTOMHPEDLVDIIRMEDKK--EVIPTVHNLTFLKRTVGLAGDRTRKF 623
Db 1018 DSHRLQYKDSITVIGDSMKPEE--NFVSATDKTQDVPFE-----KITVSQVONKXKAGV 1070
QY 624 HFEIELKNNKOELLISQVTKDTKTNLEFRKGATINLKHGESLTLOGIPEGYSYLVKETS 683
Db 1071 YPIIYSDGKEETVYVTKPQSKLEVKD--TTIYV--GDSWK---PE--DNFVSATDK 1120
QY 684 EGYKV---KVNQSEVANATVSKTITSDELTAPEEN 715
Db 1121 TGQDVPEKIDVOGTVN--VDKIG---DYELIVKN 1150

RESULT 6
US-09-071-035-402
Sequence 402, Application US/09071035
Patent No. 6448043
GENERAL INFORMATION:
APPLICANT: Gil H. Choi
TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 496
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
FILING DATE:
APPLICATION NUMBER: US/09/071.035
CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brooks
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 402:
SEQUENCE CHARACTERISTICS:
LENGTH: 1448 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
us-09-071-035-402

Query Match 4.1%; Score 161; DB 4; Length 1448;
Best Local Similarity 21.1%; Pred. No. 0.00054;
Matches 159; Conservative 104; Mismatches 326; Indels 166; Gaps 40;

QY 39 ALVTSMTGAKTVEGLVES---STPNAINPDSSSEYRWGYRSGHPRYKQFRVADLR 95
Db 511 SLSTPVGIPKNAIQLVSDQYIEPISVNP--LNAETANGNDYQ-----NGATSSR 558
QY 96 --VNLEGSRSYQVCFNLKAP---LGSDDSVKMYKKKHGISTKFEYAMSPIRTGD 149
Db 559 TTYSVMGSKKEPIONLEIKVHKHPYVLSLRATKEIFYK---LGT---DYTVPTSDGS 611
QY 150 ELNOKLRAVYNGHPQANANGIMEGL-----PLNAIVTQEAIVYSDNAPISNPDSFK 204
Db 612 VIKFTPTITNEIQIPIGFNVPDLSLPKDSIPVDITITMSAGELTPVDITVT---NSK 668
QY 205 RESESNLVSTQSLSLMQALKOLIDPMLATKMPKQVDDPOLSTFESEDKGDKYKNGYON 264
Db 669 RGSERTLOSSKNQFLVARNRDSFSLSVKRIKIPAGA--DVLFDIYDVSN--DQVDSIYPQ 724
QY 265 LLSGGLVPTKPPRGDPM--PMQPTTSVLI-----RKYATGYSKL---LEGATIQ 313
Db 725 YMDRGQYFDKPMFPNSGYPITITDETNSTYTFPGTKNKYII--EKKMANGMIDVPTLY 783
QY 314 LTG-----DNVNSFOARVSSNDIGERIELSDGTYYLTLSNPAGYSIAEPIITFEYAG 367
Db 784 ITGTAKEPQSNNGSASVSQN---EALDILSAT-----QANPPLKKNYTKT 828
QY 368 KVTY-IIDGK--QIENPNKEIVEPYSEAYNDPEFSVLTQNYAKFYAKNKGSSQVY 424
Db 829 TVTTKNIDNKTNRKKNPTIELTPKGTINAQIDLSITV-----KGPEDA 873
QY 425 YCFNADLKSPDSEDGKTMPTDFTTGE---VKYTHIAGRDLFKYTKPRDTPDPTLKH 481
Db 874 Y-----SLEKTINGAKVIFKDYTLTENITIEIYVNSANAGQYITETITDSETLNOMSA 926
QY 482 IKKVI-----EKGYREKGOAIEYSGLTETQLRAATOLAIFYFTD---SAEL 524
Db 927 SKKKVTTAPITLAKSEGDAGIYVLAATATFTYTHNVEDENQIAKVSFELIDNVTHTATEF 986
QY 525 DKOKLKHGFGDM--NSTLAVAKILVEYADSNPOLT-----DLDFITP----- 569
Db 987 TTDEKGOYSPDAIMTGYTLKVTNVPOEYSVDEE--YLTGKAIKLVKGDNOLKIPLRTKI 1044
QY 570 NNNKYYQ-----SLIGTOMHPEDLVDIIRMEDKK--EVIPTVHNLTFLKRTVGLAGDRTRKF 623
Db 1045 DSHRLQYKDSITVIGDSMKPEE--NFVSATDKTQDVPFE-----KITVSQVONKXKAGV 1097
QY 624 HFEIELKNNKOELLISQVTKDTKTNLEFRKGATINLKHGESLTLOGIPEGYSYLVKETS 683
Db 1098 YPIIYSDGKEETVYVTKPQSKLEVKD--TTIYV--GDSWK---PE--DNFVSATDK 1147
QY 684 EGYKV---KVNQSEVANATVSKTITSDELTAPEEN 715
Db 1148 TGQDVPEKIDVOGTVN--VDKIG---DYELIVKN 1177

RESULT 7
US-09-074-658-15Sequence 15, Application US/09074658
Patent No. 6164371

GENERAL INFORMATION:

APPLICANT: Loosmore, Sheena M

APPLICANT: Run-Pan Du

APPLICANT: Quijun Wang

APPLICANT: Yang, Yao-Ping

APPLICANT: Klein, Michel H

TITLE OF INVENTION: LACTOPERRIN RECEPTOR GENES OF MORAXELLA

NUMBER OF SEQUENCES: 78

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney

STREET: 6th floor, 330 University Avenue

CITY: Toronto

STATE: Ontario

COUNTRY: Canada

ZIP: M5G 1R7

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/074,658

FILING DATE: 08-MAY-1998

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Stewart, Michael I

REGISTRATION NUMBER: 24,973

REFERENCE/DOCKET NUMBER: 1038-795

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 2432 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-074-658-15

Query Match 3.9%; Score 154.5; DB 3; Length 2432;

Best local similarity 19.6%; Pred. No. 0.0041;

Matches 169; Conservative 101; Mismatches 306; Indels 285; Gaps 41;

84 YRKQFVANDLRVNLGSRSSYOYCFNLKAPLG--SDSSVKKWYKHDGISTKPEDYA 141

161 YENKFPALDHLHDSERHR-FDPQKINTIKYGYGNLTTPSNNTIHINQADNKKNNKP 219

142 MSP-----RTNGDELNOK-----LRVYNGHGNQNGIMEGLEPILN 178

220 VPEYENIRRGVLELQSSSLTKNADNQNODRIPKMPILFHYG--ENASSQSPSAGKEN 277

179 -----AIRVTOEAVWYYSNDAPISNPDESFEKRESESNLSTQSLMPROA 223

278 YTGNNMLYSDVKRRPALSASDERVGYVLNASKAN-----EDDVVSAHITLYNGQ 328

224 LKQLIDPNLATKMPKQVPDF-----QLSFESEDKGDKYKNG-----261

329 YKH-----TPATYQVDFDTNSLGLKLSYDNPNG--QNNKGEYLKSFDTTKVNETD 379

262 -YQ-----NLSG--GLVPTKPTTPG-----DPPMPNPQPTSTVLIRKAYAGDS 304

380 VYQIDAKINGNRPVGAKSIVNEKIQTAFLKELEFSKKANPNPNPN-----S 427

305 KLEGGATLQTDGDNVNSFOARVSSNDI-----GERIELSDGTTLTLELNSPAGYSIA 357

428 DTLGGFTGESGDEL-----AGKFLSDNMSYVVGKDKTKTKPVATKTVYFS-AGFE-- 480

QY 358 EPIFKEVAKQYTYIIDGKQIENP-NKEIVEPYSEAY-----NDEEFSVLTTQ-- 406

DB 481 KPSTSEVDNETTIGIIDRKGLNHNHINDELIIPSDDSYGYTWGKPEKQFTKSSSTQVY 540

QY 407 -----NKAFYVYKNNNGSSQVYCFNADLKSPDSEDDGKMTPTPTTGEV----- 453

DB 541 PAYEGQHDKFFY-----NGNYDLSASRVKLABADAVKANQSIKEKYPNATLKNQVYA 596

QY 454 -----KYTHIA-GRDLF-----KYTVKPRDTPDPEFLKIKKY 485

DB 597 IYVQEAQDKKPYTAIRAKSYQHISFETLYLNDANQTPRSYFQGGRAOTSTLLPQAGKF 656

QY 486 I-----EKYREKGAIEYSG-----LTETQLRAATQALAIYFT-----DS 521

DB 657 TYNGLWAGYLQKKDGYSDNAETIKERKHPGYLTEN-----FPEDDDDL 704

QY 522 AELDKRLADYHFGMDNSTLAVALIVEYADSNRPQTLDTDFIPINNKYQSLIGQ 581

DB 705 TASDSQDDNTHGDDDL-----IASDSQDDDDADDSDDDL--GDGADDDAAKRV 753

QY 582 WHPEDLVDTIIRMEDKKEVIVP-----TNHLLT-----RKYVGLAGDRTKDF 623

DB 754 YHAGN-----IRPEFEKYLPIINEPTHEKTPALDGKAKAFENDFNLSLGLNDRGDI 809

QY 624 HFEIELKNNKQELLQSOTVTKDTNLEFKDGKATINLKHGESLTLQGLPEGYSYLVKETS 683

DB 810 VFDI--KNKIDGTGTTAKADVPVNYREVG-----NNQGG-----GLYNIKIDIV 853

QY 684 EGYKRVNSQVNA-----NATVSKTG-----IISDTLAEFNKKEPVYPIGVQ 727

DB 854 KGFQFTNGEELAGQJLHDKGDGINPTAKAGAVGAVGAKDKMSITKTQTPSVHMTTH 913

QY 728 KINGYL--ALIYAGISLGIW 746

DB 914 RLNLAKKALFGVAVLEPSW 934

RESULT 8
US-08-851-567B-49Sequence 49, Application US/08851567B
Patent No. 6528484

GENERAL INFORMATION:

APPLICANT: Ensign, Jerald C

APPLICANT: Bowen, David J

APPLICANT: Petell, James

APPLICANT: Fatig, Raymond

APPLICANT: Schoonover, Sue

APPLICANT: fitchenc-Constant, Richard

APPLICANT: Rocheleau, Thomas A.

APPLICANT: Blackburn, Michael B.

APPLICANT: Hey, Timothy D.

APPLICANT: Merlo, Donald J.

APPLICANT: Orr, Gregory L.

APPLICANT: Roberts, Jean L.

APPLICANT: Strickland, James A.

APPLICANT: Guo, Lining

APPLICANT: Cliche, Todd A.

APPLICANT: Sukhapiinda, Kitisri

TITLE OF INVENTION: Insecticidal Protein Toxins from Photobabidus

NUMBER OF SEQUENCES: 88

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dow Agrosciences Patent Department

STREET: 9330 Zionsville Road

CITY: Indianapolis

STATE: IN

COUNTRY: US

ZIP: 46268

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296,93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 1849 amino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-49

```

```

Query Match          3.9%; Score 152; DB 4; Length 1849;
Best Local Similarity 18.3%; Pred. No. 0.0043;
Matches 148; Conservative 120; Mismatches 287; Indels 254; Gaps 37;

```

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QY 157 AVMNNGHPNANGIMEGLEPNAIRVPOE-AVWYSD-----NAPISNDESKRRE 208
DB 796 AOOIWAPOGVSAIV-GDDYIQSMKETPTVAMENAGVLAAGLNSOQATLHAFLDSR 854
QY 209 SINVST---SOLSLMRQALKO-----LIDPNIA-----TKMKQVDDFOL- 246
DB 855 SAALSTYIRQVANAARAKSRDLDLYOLLIDNQVSAIKTRIAEALA-SGLQVYNAL 913
QY 247 -SIFSEEDKG-----DKYNGYONLLSGLVPTKPPPGDPPMPQPTSVLI 295
DB 914 ENVEENANSGVYSRQFIDMDKYNKRYSTWAGVSQLVYYPENYIDPTMRIGQTKMDALL 973
QY 296 RKVA-----IGDYSKLEAGATLQLTGNVNSFOARV-----SSNDIGE- 334
DB 974 QSVSOSQIADMTVEDAFMSYLTSPFQVANLKVISAHYHNNDOGLTYFGLSEDAEY 1033
QY 335 -----RIELSDGYTYLT-----ELNSPAG--YSIAEPTFEKVAGVYIT-IDGQIE 379
DB 1034 YWRSDHKKFNDKFAANAMSEMKRIDCPINPKYSTIRPVYK---SKLYILMLEOKELT 1090
QY 380 NPKREIYEPYSVEAVNDE-----EFSVLTQN-----YAKF 411
DB 1091 KOTGNSKDGQYQETFDYRELKLAHRYDGTWNTPTTFDVNKKISLEKKNRABGLYCAG 1150
QY 412 YAAK-----KNGSSOVYCFPMADLKPSPSEDGKTYTP----- 446
DB 1151 YQGEDTLLMFYNOODTLDYSKMSMOGLYIF-ADMAS-----KDMTEQSNVYRDN 1201
QY 447 -----DFTTGKVKYTHIAGRDLFKTYVRPRDTP 475
DB 1202 SYQEDPTNNVRVNNRYAEDYEIPSSVSSRKDYGGDYYLSMNYNGDIPPTNYKRASSDL 1261
QY 476 DTFELKIKKVIIEKGV---REKGOAIEYSGLETOLRAATOLAITYFTSDAELDKDKLD 531
DB 1262 KIYISPKRLIRHNGYEGQKRNOCNLMNKYIGKLGKFIYITSLGAVPNPNSSNKLMPYVYQ 1321

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QY 532 YHFGDMNDSTLAAKILVEYAQDSNPQIJDLDFFIPNNK-----YOSLIGTQW----- 582
DB 1322 YSG---WTSGINQGRLL--FHRTTYP--SKVEAMIGCARSLTNQNAALGGDVAATDSL 1373
QY 583 -HPEDLVDIIRMEDEKEYI-----PVNTNLT---RKVTGAGDRTPDFHE----- 626
DB 1374 NKPDDLKQYIMTDSKGRATVDSGVEINTAISPAAKQIYKAGKEDGTADADVSITOP 1433
QY 627 -----ITLKNKQELLSQYTKDTKNTLEF-KDK-----ATINLKHG 662
DB 1434 SPSEFENNYQFNALEIDSGLNFINNSASIDVTFAPAFEDGKRLGYESESFIPVTLKST 1493
QY 663 ESTLQGLPEGSYLVKRTEDSGYKVNNS---QEVANATYSKGTISDETLAEFNKE 718
DB 1494 NALTLHNHNGAQYV---QWOSYKTRNLTLFAROLVARAT---TGIDITLISMETQNIQ 1546
QY 719 PVVPTGVQDKINGYDALIYVIGISIGING 747
DB 1547 P-----QLGKGFYATFVIPPYNLSTHG 1568

RESULT 9
US-08-851-567B-47
Sequence 47, Application US/08851567B
Patent No. 6528484
GENERAL INFORMATION:
APPLICANT: Ensign, Jerald C
APPLICANT: Bowen, David J
APPLICANT: Petell, James
APPLICANT: Fattig, Raymond
APPLICANT: Schoonover, Sue
APPLICANT: French-Constant, Richard
APPLICANT: Rocheleau, Thomas A.
APPLICANT: Blackburn, Michael B.
APPLICANT: Hey, Timothy D.
APPLICANT: Merlo, Donald J.
APPLICANT: Orr, Gregory L.
APPLICANT: Roberts, Jean L.
APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Cliche, Todd A.
APPLICANT: Sukhplinda, Kilsiri
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESS: Dow AgroSciences Patent Department
STREET: 9330 Zionsville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: US 08/705,484
 FILING DATE: 28-AUG-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Seay, Nicholas J
 REGISTRATION NUMBER: 27386
 REFERENCE/DOCKET NUMBER: 960296.93804
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 608-251-9166
 TELEFAX: 608-251-5000
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2516 amino acids
 TYPE: amino acids
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-851-567B-47

Query Match 3.98; Score 152; DB 4; Length 2516;
 Best Local Similarity 18.38; Pred. No. 0.007;

Matches 148; Conservative 120; Mismatches 287; Indels 254; Gaps 37;

QY 157 AVMYNGHPONANGIMEGLEPNAIRVQGE-AVWYISD-----NAPISPDSEFRKESE 208
 DB 884 AQQUNAAQGVSAVY-GLDYIOSKKEPTTYAQWENAGVLTLAGINSQOANTLHAFLDESR 942
 QY 209 SNLVT---SOLSLMROALKO-----LIDPMLA-----TKMKQVPPDFOL----- 246
 DB 943 SALSFTYIRQVAKAAAIKSRDLYOYLIDNOVSAKITRRAELIA-SIQLYVNRAL 1001
 QY 247 -SIFESDEK-----DKYKGYQNLISGLVPTKPPEDPPMPNPQPTSVLT 295
 DB 1002 ENVEEANANGSVISROFEIDWDKYNKRSTWAGVSQLYVPEYNIIDPTMRIGQTKMDALL 1061
 QY 296 RKVA-----IGDYSKLLEGATLQILOGDNVNSFOARV-----SNDIGE- 334
 DB 1062 QASVSQSLANDYEDAFMSLTISFEQVANIKVISAHDNINNDGGLTFYIGLSETDGEY 1121
 QY 335 -----RIELSDGTYYLT-----ELNSPAG--YSIAEPTTFVEACKVYTI-IDGKOIE 379
 DB 1122 YMSVDSHKNFNDKFAANAMSEWHKIDCPINPYKSTIRPIYK---SRLLMLMEQKEIT 1178
 QY 380 NPKKEIYERYSVAIYNDFE-----EFSVLTQON-----YAKF 411
 DB 1179 KQGNKSKDGYQETEDYRELEKLAHIRYDGTMTPTIFDVNKKISELLEKRAAGLYCAG 1238
 QY 412 YVAKN-----KNGSSOVVYCFNADLKSPPDSEGGKTMPP----- 446
 DB 1239 YQEDPILVWFYNOQDILDSYKNASMOGLYIF-ADMAS-----KDMTPEOSNYYRDN 1289
 QY 447 -----DETTGEVKYTHIAGRDLFKYTVKPRDTP 475
 DB 1290 SYQOFTNNRVNRYAEDYEIPSSVSRKDYGMWGDIYLSMVGNDIPTINAKASSDL 1349
 QY 476 DTFLKHKKYIEKGY---REKGALEYSGLTETQLRAQTOLAIIYFTDSAEIDKDKLKD 531
 DB 1350 KTIISPKRLRIHNGYQGRKQCNLNNKYGKLGDKLTIVTSLGVNPNSSNKLMEFPVYQ 1409
 QY 532 YHFGGDMNDSTLVAKILVEYAODSNPOLDLDFIIPNNK---YQSILGTQW----- 582
 DB 1410 YSG-----NTSGLNQGRLL-FHRDITYP--SKVEAMTPGAKRSILTONAIGDYYATDSL 1461
 QY 583 -HPEDLVDIRMEDKKEVI-----PYTHNLTL---RKYVTGLAGDKTKDHF----- 636
 DB 1462 NKDDDLKQYIFMTDSKGTATDVGPEINFAISPAKQIIVKAGGKQGTFTADKDVSIOP 1521
 QY 627 -----IELKNKQELLISQTVKDKTNLEP-KDGK-----ATINKHG 662
 DB 1522 SPFSDEMNQAFNALIEDSGLANINNSASIDVTFRTFAEDGRKLGYESFSIPTLVKSTVD 1581
 QY 663 ESTLLOGLPFGYSYLKVTEDSEGYKVKVNS---QEVANATVSKTGITSETTLAFENKKE 718
 DB 1582 NATLTHHNENGAQIYM-----OMOSYTRRLNLTLPAROLVARYT---TGIDITLISMETONIOE 1634

QY 719 PVVPTGVQKINGYLALIVIGISLGIWG 747
 DB 1635 P-----QLQKGFAATFVIPPYNLSTHG 1656

RESULT 10
 US-09-327-536-2
 ; Sequence 2, Application US/09327536
 ; Patent No. 6355477
 ; GENERAL INFORMATION:
 ; APPLICANT: FISCHETTI, Vincent A.
 ; APPLICANT: ROCHA, Claudia
 ; TITLE OF INVENTION: FIBRONECTIN AND FIBRINOGEN BINDING PROTEIN FROM GROUP A
 ; FILE REFERENCE: 022927-008
 ; CURRENT APPLICATION NUMBER: US/09/327,536
 ; CURRENT FILING DATE: 1999-06-08
 ; PRIOR APPLICATION NUMBER: US 08/714,402
 ; PRIOR FILING DATE: 1996-09-16
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: Patentln Ver. 2.0
 ; SEQ ID NO 2
 ; LENGTH: 1161
 ; TYPE: PRT
 ; ORGANISM: SFEFBP gene
 US-09-327-536-2

Query Match 3.88; Score 150; DB 4; Length 1161;
 Best Local Similarity 19.98; Pred. No. 0.003;

Matches 191; Conservative 121; Mismatches 326; Indels 324; Gaps 51;

QY 21 KNSKREFTVTLV--GVFLMI-----FALVTSWGAQTVFGLVESSTPNAINPDSSEYRW-- 72
 DB 112 KTSRTMTVTVYENGYEYKRLVENPYNNGELISAKGSKDY-----SSSLQENPKMSVYKYGK 166
 QY 73 ----YGYESTYVRGHPYI-----KQ-----FRVANDLRVNEGSSYOYVCE 109
 DB 167 TEVSSGADPEYRNHAAYFKMSFELKQDKSETINPGDTFVLQDRRLNPKG----- 217
 QY 110 NLKAPP-----LGSSSVKKWKYKKHDKGSTKEFYA----- 141
 DB 218 -ISQDIPKIIYDSANSPLAIGKTHAENHQULYFTDIIAGLDKVQLSAELSLFLENKEVL 276
 QY 142 -----MSPRITGDELNOK--LRAVYNGHPONANGIMEGL-----EPLNAIRVTOE 185
 DB 277 ENTSISNEKSTIGQETTYGTVNVLYGNSTESNVTITGLNVGGSIESYNT--ETGE 334
 QY 186 AVWYISDNAPISN-PDESEK-----RESENLVSTISQSLMROALKQILDPNLTAKMP 237
 DB 335 FWMYVYVVPNRKTNIPYATNMLMGFGHARSNTSDLENDANTSALGEIQYVEVEGEKLP 394
 QY 238 KOVPPD-----FOLSIPESEDKGK-VNKGK----- 262
 DB 395 SSGYGVDTYKLTLTDTITAGLGNGFQMTKKRQIDFGNNIONKAFITIVTGKTDOSGRPIYV 454
 QY 263 -QNLIS-----GG-----LVPTKPPTPGDPMPNPQPTSVLIRKXA 299
 DB 455 QSNLASPRGASEYAATFPGVGNVYFQNEIALSPKSGSGSKSEF--TKPSITVANKRVA 512
 QY 300 IGYYSKL-----LEGATLQDLDNNSFPARFSSNDIGE--RIELSDGTYYLTLENSP 351
 DB 513 QLFREKMSDUNVPLPEAAFLRSSNGNS-OKLEASSVTQGEVHFKDLTSGTYDLYETKAP 571
 QY 352 AGYS-----IAPPIYF-----KVEAGKVYTIIDGKO-IENPNKEIYE 387
 DB 572 KGIQOYTEKAIATVDTTKRAEEMVWGSVSHSSVYKAEANKVITVNHKEITFSGKKIME 631
 QY 388 PYSVEAYNDEFEESVLTQONVYAKFYAKNKGSSQVYVYCFNADLKSPPDSEGGKTMTPD 447
 DB 632 -----NDRPD-----QNPAKIQOVLQNGQ-----KNPNQIQE---VTMD 663
 QY 448 FTTGEVKKYTHIAGRDLFKYTVKPRDTPDTFLKHKKVIEKGYREKGALEYSGLTETQOL 507

```

Db      664 ---NDMSY-HF--KDLPRYDAKNDE-----YKYSVEEVNPDGKYSYLGNDIFNT 708
Qy      508 RAAPOLAIYVPTDSAEIDKDKLDVHGFDMNDSTLAAKLIVEAADS--NPQLTDL 565
Db      709 R-ETEFVEPÖNNFNLEFGNAELKGGSGSKITDEDLTSEFGKAKIKMNDPAENPAIOVQ 767
Qy      566 FF-----IPNNKKYSLIGTOMHPE-----DLV-----D 589
Db      768 LYADGVAVEGQTKFTSSGSGNEMSPFEFKNLKKNYNGNDIISYKREVTPTGVDYYSAND 827
Qy      550 IIRMEDKKEVI-----PVTNHLTLRKYTVGLADRTKDFEIE---LKNKQELLIS 638
Db      828 II--NTKREVITQGPKEIEETLPLESGASG--GTTVEEDSRPVDTLISLSSQOGSGD 883
Qy      639 QTVKTKD--TINLEFK-----DGR-----ATINLKHGESLTLQG-----LPRGYSYL 677
Db      884 MTIEDSATYHIKFSKRDIDGKELAGATMELRDSGKTIISTWISDQVDFYLMPEKTYF- 942
Qy      678 VKETDSEGYK-----KVNQOEVANATVSKTGITSDETLAFFENKKEPVPTG---VDQ 727
Db      943 VETAPDGYETATATITFTVNEQ--GQVTVNGKATGDIHIVVDAYKFTKSGGQYIDIE 1000
Qy      728 KI 729
Db      1001 KI 1002

```

```

RESULT 11
US-09-071-035-458
; Sequence 458, Application US/09071035
; Patient No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders, Brookes
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 458:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2032 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-071-035-458

```

Query Match 3.8%; Score 149; DB 4; Length 2032;
 Best Local Similarity 19.0%; Pred. No. 0.0087;
 Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

```

Qy      19 LSKNSRFLVTLGVFLMIFALVSMV-----GAKTVG-----LVESSTPNAI 62
Db      1098 LKTKMDETTILAGAHFOIMDAQTOVLRGTVDAITGVITTFGLGOGQYIIVETAP--- 1154
Qy      63 NPSSESXRMWGESYVGRHPYKQFRAHDLRLNLEGSRSYVYCFNLKAPPLGSDSS 122
Db      1155 -----BEYTVSDELAKGRVITIDETSAGAQ--TIKKNVKNYFLKEMDEK 1200
Qy      123 YKKW---YKKHDGISTKF---EDYAMSFRITGDELNOKLRAVMTNGHPONANGIME--G 173
Db      1201 GKLLVNAFKLEHAATVTFTHWEVPLAPDRT-----NANGOLEVDS 1242
Qy      174 LEP-LNAIRVQOEAIVWYSDNAP-----ISNPDESKRESN 210
Db      1243 LKPGLYQFTETIAPGLYLDITPPKPFIVYTONTSQOIRDVHVMYVQGSAGELIKRDQGN 1302
Qy      211 LVSTQSLISM---ROALKO--LIDPNLATKMPQVDDFOLISFESEDKGKYNKGYNL 265
Db      1303 PLAGADEFVLDITGGAVREHLVSDANGKVTYVDLAPKXQF---VETKAP----- 1349
Qy      266 LSGLVPPKPPTPPGPPMPNPQPT-----TSVLIRKAYAIGDYSKLBGATLQ 313
Db      1350 -AGYLLNTEPSAFITIASDRGKPAIVYATANFVNYOGTAKLIKDVNG---HLISGATPK 1405
Qy      314 LTGDNVNSFOARVFSSNDIGERI--ELSDGTYTLELNSPAGYST-AEPIITKV---ENG 367
Db      1406 YLDAGETLQTLG-L--TNNGGETVABHLAAGKRYFVETAKPATGYLLNTTPVPEIIEKNAG 1464
Qy      368 K-----VYTIIDGQLENNKEIPEVSYEAANDPEEFSVLTONYAK-- 410
Db      1465 KPAVVVASDNFVSYGAFQIVTNSADQPLAGAV---FELY-DINKOSLIGTATNSGDKG 1519
Qy      411 -----FYAKNK-----NGSSOVVYC-----FNADLKSPSEDDGKTMTPDE 448
Db      1520 KIIIFRDLAGFYIYKEIKAPKLPGADADYIIPYELKVEIRGDFKQDEI-----F 1569
Qy      449 TTGEVYKTHIAGRDLEFKTVKRPDTPDTFLKHKKIVIEKGR-----EKGQAI--- 497
Db      1570 QLG--AFANFKGRAVEKIDANANPLGTIFKLYR--IENGKIFEREVYTAEKDGLME 1625
Qy      498 -----EYSGLTETQLRAATQALTYF---TDSAEIDKDKLDYHG--FG---DNMD 540
Db      1626 DIGAGSYELDELDAIDGIVYKQPIYFVYKKNKSNKQPLDELEFVNYQAEVWGRKRVNEDG 1685
Qy      541 STLAAVAKILVEYAQDSNPQTLTDLDFEIPNNKKYOS----- 576
Db      1686 QTLGAVFAIYNADQONQDQSPITFELNAGEKVEIITDKGEIYANGLNGHYLVET 1745
Qy      577 -----LIGTOMHPEDVDIIRMEKKEVIPTVTHNLTLKRYTVGLAGDRTKDFHEIEIK 630
Db      1746 KAPTGYLDITLHP---FDVTAQLGKEQPIALGDIINYGTA-----QLTKE 1789
Qy      631 NNNKQELLQTV--KTDKTNLEFKDGKART--NLKHGESLTLQGLPEGY-----SYLV 678
Db      1790 NETGEALGAVFKVVIDETG-QTVDDQTNLMSKQKVIYAKNLAPGTIRVETQAPFTSYLL 1848
Qy      679 KETDSEGYK-----YKVNQOEVAANA----- 698
Db      1849 NETPSASFYIAKDNQGPATVVLKAPETINYGAAKLVRKIDQCKNLALAGAEFKVTDAGETQ 1908
Qy      699 TVSKTGITSDETLAFFENKKEPVPTGVDOKT-NGY 732
Db      1909 TVARSLRSDNGLVQVNHLPQKRYFVETKAPDGY 1943

```

```

RESULT 12
US-09-071-035-462
; Sequence 462, Application US/09071035
; Patient No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides

```

```

: NUMBER OF SEQUENCES: 496
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Human Genome Sciences, Inc.
: STREET: 9410 Key West Avenue
: CITY: Rockville
: STATE: Maryland
: COUNTRY: USA
: ZIP: 20850
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
: COMPUTER: HP Vectra 486/33
: OPERATING SYSTEM: MSDOS version 6.2
: SOFTWARE: ASCII Text
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,035
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: A. Anders Brookes
: REGISTRATION NUMBER: 36,373
: REFERENCE/DOCKET NUMBER: PB369P2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (301) 309-8512
: TELEFAX: (301) 309-8504
: INFORMATION FOR SEQ ID NO: 462:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2032 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-09-071-035-462

Query Match      3.88; Score 149; DB 4; Length 2032;
Best Local Similarity 19.0%; Pred. No. 0.0087;
Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

QY 19 LSKNSKRFYTLGVFLMIPALVTSNV-----GAKVPG-----LVSSPTNAT 62
Db 1098 LKRTADETTILGAHFQIDQAKTQVLRGVDAFGVTFGGIPGQGYILVETKAP--- 1154
QY 63 NPDSSSEYRWYGYEYVGHPRYKQFVAHDLRVNLEGSRSYOVYCNLKKAPLGSSS 122
Db 1155 -----EGTVSDELAKGVITITIDEETSAGAP-ILIKNDVAKVLEKDEK 1200
QY 123 VKWV---YKHDGISTKF---EDYAMSPRITGDELNOKLRAVYNGHPONANGIME--G 173
Db 1201 GKLLVNAKRFLEHAVTTPFTFHEVEVPLAPDRT-----NANGQLEVDS 1242
QY 174 LEP-LNAIRYTOEAVMYVSDNAP-----ISNPDESFKREESN 210
Db 1243 LKGLVQFTEIEAPGILDTTPKRTIVONTISGQIRDVHKMLNTQGSALLIKQOAGN 1302
QY 211 LVSTQSLSLM---RQALKQ--LIDPNLATKMPKQVDDPOLSTFESDEKDKYKNQYONL 265
Db 1303 PLAGAFESVLDITGGQAVREHLVSDANGKYVTTDLAFGKYF---VETKAP----- 1349
QY 266 LSGGLVTPKPPTPGDPMPNPQOT-----TSVLIRKVAIGDYSKLLLEGATLQ 313
Db 1350 -AGYLLNTEPSAFTIASDRGKPAVIATANFVNYOGTAKLIKDVNG--HLLSGATFK 1405
QY 314 LIGDNNNSFOARFSSNDIGERT--ELSDCTYTLTELNSAGSIT-AEPTTFV---EAG 367
Db 1406 VLDANGETIQTGL-TTNNQGEIYAHEHLAPGKRFVETKAPTYGLNTTTPVPEIARKNAG 1464
QY 368 K-----VYTIIDGQJLENPKKEIYEYVSVAVYNDPEEFSLTTQNYAK-- 410
Db 1465 KPAVVVASDNFVSFKAPFQIVTKNSADQPLAGAV---PELY-DHNKQSGITATYSGKDG 1519
QY 411 -----FYAAKKN-----NGSSOVVYC-----FNADLKSPDSEDGSKTMTPDF 448

```

```

Db 1520 KIIFRLAPGTYYYKKEIKAPKLDPGADYIITPELVKEIRGDKGDEI-----F 1569
QY 449 TTGEVKYTHIAGBRLFYVYKPPNDPDTFLKHKKVIEKGYR-----EKGAT--- 497
Db 1570 QLG--AFANFKGRAVFKIDANMANPLDPTLFKLYR--TENGEKIFEREVTAEDKSLAME 1625
QY 498 -----EYSGLTETQIARAATOLAIYF-----TDSAEILDKDLKDYHG--FG---DMND 540
Db 1626 DLGAGSYEDELATDQCIYNNKQPIYVYVAKNSNDKQPIDELEFVYVQAEMGRKYNQEG 1685
QY 541 STLAVALIYEYVQDSNPQOLTDLDFIPINNKRYQS----- 576
Db 1686 QTLGAVFAIYNADQONQPOGSPITFLNRAGEKVSSEITTDKTEIYAKGINEGHVYLVET 1745
QY 577 -----LIGQWHPEDVLDIIRNEDKKEVRYVHNULRKTGVYGLAGDRKDPHFELEK 630
Db 1746 KAPTYLDTTLHP---EDVTAOLGKQPIALDLDLIVYGTA-----QLTKE 1789
QY 631 NNRQELISQTV--KTDTNLEFRDKGKATI-NLKHGESLTLOGLPEGY-----SYLV 678
Db 1790 NETGEALAGAVFVIDETG-QYVDGQTNLMSDKQGVIAKNLAPGYRFEVETQAPSYLL 1848
QY 679 KETDSEGYK-----YKNSQVYANA----- 698
Db 1849 NETPSASFITAKDNQGNKPAIVLKAPEINYQGAAKLVKIDQKNALAGAEFKYTDAGTGO 1908
QY 699 TVSKTGITSDETLAFENNKKEPVYPTGWDKI-NGY 732
Db 1909 TVARSLSDNQGIVQVNHLPQKTYTVEYETKAPDGY 1943

RESULT 13
US-09-071-035-466
: Sequence 466, Application US/09071035
: Patent No. 6448043
: GENERAL INFORMATION:
: APPLICANT: Gil H. Choi
: TITLE OF INVENTION: Enterococcus faecalis polynucleotides and polypeptides
: NUMBER OF SEQUENCES: 496
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Human Genome Sciences, Inc.
: STREET: 9410 Key West Avenue
: CITY: Rockville
: STATE: Maryland
: COUNTRY: USA
: ZIP: 20850
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
: COMPUTER: HP Vectra 486/33
: OPERATING SYSTEM: MSDOS version 6.2
: SOFTWARE: ASCII Text
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,035
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: A. Anders Brookes
: REGISTRATION NUMBER: 36,373
: REFERENCE/DOCKET NUMBER: PB369P2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (301) 309-8504
: TELEFAX: (301) 309-8512
: INFORMATION FOR SEQ ID NO: 466:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2032 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein

```

US-09-071-035-466

Query Match 3.8% Score 149; DB 4; Length 2032;

Best Local Similarity 19.0%; Pred. No. 0.0087;

Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

```

QY 19 LSKNRKRTVTLVGLFELMIFALVTSMV-----GAKTVFG-----LVESSTPAI 62
DB 1098 LKKTAMDETTLLAGAHFOIMDOAKTOVLRGTVNATGVITTGGLDPOGOTILVETKAP--- 1154
QY 63 NPDSSSEYRWYGESYVNGHPYKOPRYAHLRVMLGSRYSOYVCFMLKKAFLPGSDSS 122
DB 1155 -----BEYTVSDELAKGRVITIDEETSAEGAOP-TIIKNVNVKVELEKMEK 1200
QY 123 VKKW---YKKNHDISTKF---EDYAMSPRITGDELNOKLRAVMYNGHPONANGIME--G 173
DB 1201 GKKLVAHFLEHVAVTTFPTHEEVPFLAPDRF-----NANGOLEVDS 1242
QY 174 LEP-LMAIRVQGEAWYVSDNAP-----ISNPDESFRKSESNN 210
DB 1243 LKPGLYOTTEIETAPRTGILDTTPPKRFIVTONTSGOIRDVHYKMLNYQGSALIKKQDQGN 1302
QY 211 LVSTQSLSM---RQALKO--LIDPNLATKPKQVDDPOLSTFESSEDKGKYNKYONL 265
DB 1303 PLGAEFEFVLDITGGAVAREHLVSDANGKVTYDLAPGKYQF---VETKAP----- 1349
QY 266 LSGGLVPTKPPTPGDDPPRPNOPOT-----TSVLIRKVAIGDYSKLEGATLQ 313
DB 1350 -AGYLLNTPSPAFITTAASDRKRPATVATANEVNYQGTAKLIKKNVNG---HLISGATFK 1405
QY 314 LTGDVNVFQARVFSNDIGERI--ELSDGYTLTELNSPAGYSI-APRTPKV---EAG 367
DB 1406 VLDAGKETIQTGL-TTNNQGEIVAHHLAPGKTRPETKAPRGYILNTTPVPELEKKNAG 1464
QY 368 K-----VYTIIDGQIENPKIEIPEYSEVAYNDEEFSVLTQNYAK-- 410
DB 1465 KPAVVVASDNFVSYGAFQIVKTNASDQPLAGAV---FELY-DHNKQSLGITATSGDKG 1519
QY 411 -----FYAKNR-----NGSSOVYIC-----FNADLKSPSESDGKTWPTDF 448
DB 1520 KIIFRDLAPGTYVYKEIKAPRLPDGADYIIYELVKEIRGDFKDPET-----F 1569
QY 449 TTGEVYKTHIAGRDLFKYTVKPRDTPDLKHIKVIKYEKGR-----EKGQAI--- 497
DB 1570 QLG-APANFKGRAVFKKIDANANPLPGTIFKLR--IENGKPIFEVYTALEKDSILME 1625
QY 498 -----EYSGLETQLRAATQALAYF---TDSAEILDKDKLDYHG--FG---DMND 540
DB 1626 DLGAGSYELDELDAIDGYIVNKQPIYFVYVKKNSNDKQPLDELEFVNYQAEVWGRKRVNQG 1685
QY 541 STLAVAKILVEYADSNRPOLTDLDFIIPNNNKIYS----- 576
DB 1686 QTLGAGVAFIYNABEQNOPGSPPIFFLNRAGEKVSSEITTDYTGELIYAKLNGHYLVET 1745
QY 577 -----LGTQWHPREDLVDIIRMEDKKEVIVPTNHLTKRYVTGLAGRRTDFHREIELK 630
DB 1746 KAPRGYILDITLHP---FDVTAQLQKEQPIALGDLINQGRA-----QLTKE 1789
QY 631 NNKQELLSQV--KTDKTNLEFKDQKAT-MLKHGESLTLLOGLPEGY-----SYLV 678
DB 1790 NETGALAGAVFKVIDETG-QTVDDQTNLMSDKQKVIAKMLAPGTYPFEVETQAPTSVLL 1848
QY 679 KETDSEGRK-----VAVNSQEVANA----- 698
DB 1849 NETPASPFTIAKDNQKRPATVVLKAPFINYGAAKLVITIDQKNALAGAEFKVTDATETGQ 1908
QY 699 TVSKTGITSDETLAEFNKKEPVVPTGVDOKI-NGY 732
DB 1909 TVARSLRSDNOGLVYVNHLPQKTYFVETKAPDGY 1943

```

RESULT 14
US-08-447-031A-2

```

: Sequence 2, Application US/08447031A
: Patent No. 5851794
: GENERAL INFORMATION:
: APPLICANT: GUSS, Bengt
: APPLICANT: HOOK, Magnus
: APPLICANT: JONSSON, Hans
: APPLICANT: LINDBERG, Martin
: APPLICANT: PARTI, Joseph
: APPLICANT: STIGMUS, Christer
: TITLE OF INVENTION: A COLLAGEN BINDING PROTEIN AS WELL AS
: TITLE OF INVENTION: ITS PREPARATION
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Burns, Doane, Swecker & Mathis
: STREET: P. O. Box 1404
: CITY: Alexandria
: STATE: Virginia
: COUNTRY: United States
: ZIP: 22133-1404
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/447.031A
: FILING DATE: 22-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/861,804
: FILING DATE: 21-AUG-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: WO PCT/SE91/00707
: FILING DATE: 22-OCT-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: SE 9003374-7
: FILING DATE: 22-OCT-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: McGowan, Malcolm K.
: REGISTRATION NUMBER: 39,300
: REFERENCE/DOCKET NUMBER: 012889-006
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703) 836-6620
: TELEFAX: (703) 836-2021
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1183 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-447-031A-2

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Query Match 3.8% Score 148; DB 2; Length 1183;
Best Local Similarity 19.7%; Pred. No. 0.0045;
Matches 165; Conservative 123; Mismatches 299; Indels 252; Gaps 44;

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QY 64 PDSSEYRWY-----GESYVNGHPYK-----QFRVAHDLRVNLGSRSY---QVYCF 109
DB 182 PEDTTHVHMFPLINNERSYVSKDLTIKQIOGGQOLDSTLININVTGHSNYSQGSATIT 241
QY 110 NUKKAFPGS-----DSSVKKMYKKKHGDISTKFEEDYAMSPRTTG----- 148
DB 242 DFEKAFP-GSKITVDNTKNTIDVTIPDGYGSYNSFSINYK---TKITNDQKEFYVNS 295
QY 149 -----DELNOKLRAVMYNGHPONANGIMEG-----LEPLNAIRVTOEAVWYVSDNA 194
DB 296 QAWYQEHKKEVENGR--SFNHTVHINNAAGIEGVKGLVYLKQDKXTK-----A 344
QY 195 PISNDESEFK-RESESNLVSTQSLSMLRQALKQOLIDPNLATKMPKQVDDPOLSTFESSE- 252
DB 345 PLAN--VKFKLSKKDGSVVKNQ-----KTEIITDANGIANIKALPGGDYILKEIEFAPR 397

```

QY 253 -----DKGDKY-----NKGYNLISGL-----VPTKPPTPGDPMPMPNPQPTTSV 293
 Db 398 PYTFDKDKYPTFMKDTNOCYFTTINAKAIEKTKVSAQKWEQYQKVP-----TI 451
 QY 294 LIRKKAIGDS-----KLEGGTLOLTDGDNVNSFOARFSSND-IGERIELSDGT 342
 Db 452 YFKLYKQDDNQNTTPYDKAEIKKLEDDTTRVWMSNL-----PENDKNGKAKIK----- 498
 QY 343 YFTTELNL-----SPAGYSIAE-----PI-FFKVEAGKYVYTIIDKQIENPKKEI 385
 Db 499 YLKEVNAOGEEDTTPBETTKKENGVLVNTNEKPELTTSISEKYMWDKQDQKRPK-- 556
 QY 386 VEPYSYEAUNDPEEFVLTQNTAKFY-----AKNKGSSQVYVYCPNADLKSPDSEDG 440
 Db 557 -----VSVNVLANGEKVKTLDTSETNMKYEKDLPKYDEG-KIIEYTVEDHVMDYTTDIN 612
 QY 441 GKTMPTDFTTGEVKYTHIAGRDLFKYTVKPRDDPDTFLKHKKVIRK----- 488
 Db 613 GTTITNKYTPGESATVTKMDDNNODGKRPEIKVELYQDGKATGKTALNESNMTH 672
 QY 489 -----GYREKGOAIEYSGLTETOLRAATQ-----LAIYFTDSALDKDKLDY 532
 Db 673 TWTGLDKAKGOOVKYVEELTKYKTTTHVDNNDMGNLVTNKYTPETTSISEKYMWD- 731
 QY 533 HGFDMNDSTLAAKILVEYAODSNPQTLDLDFIPNNKYSOL---IGTOWHPEDLVD 589
 Db 732 -----DKDN-----ODGKREKYSVN-LLADGEKVKTLDTSETNMKYE-FKD 772
 QY 590 IIMEDKKEYIPTYHNLTKRYTGLAGDKTDFHEIE-----LKNKKOELLSCQVYKT- 643
 Db 773 LPRYDECKKI-----EYTVYV---EDHVKDYTDINGTITNKYTPETSATVYKKNW 820
 QY 644 -DKTNLE-----FKDGKAT-----INLKHGSLFLQGLPE-----GYSYLKE- 680
 Db 821 DDNNNDGKRPEIKVELYQDGKATGKTALNESNMTHWTGIDEAKGOOVKYVEEL 880
 QY 681 TDSEGYKVKVNSOEVANATVSK-----TGITSDELAFENKPEVYPTGVOKI--NG 731
 Db 881 TKVKGTYTHVDNNDMGNLVTNKYTPETTSISEKYMWDKQDQKREKYSVNLANG 939

 RESULT 15
 US-08-714-402-2
 : Sequence 2, Application US/08714402
 : Patent No. 5910441
 :
 : GENERAL INFORMATION:
 : APPLICANT: ROCCHA, Claudia
 : APPLICANT: FISCHETTI, Vincent A.
 : TITLE OF INVENTION: FIBRONECTIN AND FIBRINOGEN BINDING
 : TITLE OF INVENTION: PROTEIN FROM GROUP A STREPTOCOCCI
 : NUMBER OF SEQUENCES: 2
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
 : STREET: P.O. Box 1404
 : CITY: Alexandria
 : STATE: Virginia
 : COUNTRY: United States
 : ZIP: 22313-1404
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/714,402
 : FILING DATE: 16-SEP-1996
 :
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: McGowan, Malcolm K.
 : REGISTRATION NUMBER: 39,300
 : REFERENCE/DOCKET NUMBER: 016921-097
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (703) 836-6620

: TELEFAX: (703) 836-2021
 : INFORMATION FOR SEQ ID NO: 2:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1112 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 :
 : US-08-714-402-2

 Query Match 3.7%; Score 145; DB 2; Length 1112;
 Best Local Similarity 19.8%; Pred. No. 0.0077;
 Matches 190; Conservative 121; Mismatches 327; Indels 324; Gaps 51;

 QY 21 KNSKRFVTLV--GVFLMI-----FALVTSVGAKYVGLVSSTPNAINDSSEYRW-- 72
 Db 112 KTSRTWTVTYVYENGKYTKLVENPYNGELISAKGSDV-----SSLDLENPKMSVSKYK 166
 QY 73 -----YGEYSYVRGHPYV-----KQ-----FVVAHDLRYNLEGRSRYOYCP 109
 Db 167 TEVSSGADEYRNHAAFKMSFELKQDKKGETINPGDTFVLQDLRLNPKG----- 217
 QY 110 NLKARP-----LGSDSYKKNYKKKHGISTFEDYA----- 141
 Db 218 -ISODIPKIIYDSANSPLAIGKYHAENHQLYFTFTYIAGLDKVOJLSAELSLFLENKVEL 276
 QY 142 -----MSPRINGDELINOK--LRVMYNGHPQNGANGIMEGL-----EPLNAIRYTOE 185
 Db 277 EMTSISNFKSTTIGOEITTYGTVNVLGNSTESNITNGLSNNGGSISBYVT--ETGE 334
 QY 186 AWVYSDNAPISN-PDESFK-----RESESNLVSTLSOLSLRQALKQILDPNATKMP 237
 Db 335 FVMYVYVYVNPRTNIPVFTMLMGFGRARASTSLENDANNSAELGEIQYVEYVEGKLP 394
 QY 238 KOYBDD-----FQLSIFSEDEKDK-YKGY----- 262
 Db 395 SSYGVADYTKLRLTDITAGLNGFOMTKRORIDFGNMIQKAKFIKYTGKTDOSGRPLVY 454
 QY 263 -QNLIS-----GG-----LVPTKPTPDDPMPMPNPQPTTSVILIRKVA 259
 Db 455 QSNLASFRGASEAFTPVGGSNNYFONEILSLSSKSGSGSKSEF--TKPSITVANLKRA 512
 QY 300 IGDYSKL-----LEGATLOLTDGDNVNSFOARFSSNDIGE--RIELSDGTYLTLELNSP 351
 Db 513 QLRPKKMNSTONVPLPEAFELRSSNGNS-QKLEASSNTQGEVAFKDLSTGYDLYETKAP 571
 QY 352 AGYS-----IAEPIYF-----KYEAGVYTIIDKQ-IENPKKEIYE 387
 Db 572 KGYOQVTEKLATYVDTTKPEAEWYTWGSPHSSVKVEANNEVTVNHKETLTFSGKKIWE 631
 QY 388 PYSEAVANDPEEFVLTQNTAKFYAKNKGSSQVYVYCPNADLKSPDSEDGKTMTPD 447
 Db 632 -----NDKPD-----QRPKIQOVLQNGO-----KAPNQIQE-----VTKD 663
 QY 448 FTTGEVYKTHIAGRDLFKYTVKPRDDPDTFLKHKKVIRKGYREKGOAIEYSGLTETOL 507
 Db 664 ---NDMSY-HF--KDLPKYDAKNOE-----YKYSVEAVNVPQGYKSYLGNDIFMT 708
 QY 508 RAATQALITYFTTSALDKLKDYGFGDMNDSTLAAKILVEYKQDS--NPPQTLDDL 565
 Db 709 R-ETEEVFEONNNFLEGNALIEGOSGSKLIEDDTLTSFGKKIKWMDAENRPOALIOVO 767
 QY 566 FF-----IPNNKYOSLIGTOWHP-----DIV-----D 589
 Db 768 LYADGAVAGCOTKFISSGNGWSEFERKNLKKYNGTNDIITYSKEVTVPTGIVYTSAND 827
 QY 590 IIMEDKKEYI-----PYTHNLTKRYTGLAGDKTDFHEIE-----LKNKKOELL 638
 Db 828 II--NTRREVITQOGKPLIEETLPLESGASG--GTTYVDSRPVDTLSLSESGQSG 883
 QY 639 QYVKTDK-TWLEK-----DCK-----ATINKHESLTLQ-----LPEGYSL 677
 Db 884 MTIEEDSATRIKSKRIDDKELAGATMELRDSGKTTISWISDGOVKDFLYMPGRYTF- 942

Wed Aug 20 11:56:14 2003

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Page 13

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QY 678 VKEDSDSGYV-----KVNSEAVNANTVSKTIGTISDETLAFENKREPPVPTG----VDO 727
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Db 943 VETAPAPGCEIATATITTVNEQ--GOVTVNGKATKIGDTHVMVDATVAPFTGSGQVIDIE 1000
      |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
QY 728 KI 729
      |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
Db 1001 KL 1002
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Search completed: August 19, 2003, 15:23:25
Job time : 48 secs

